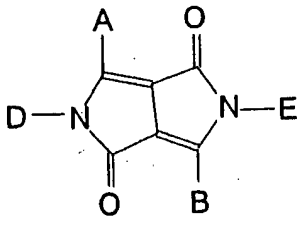
IN THE CLAIMS:

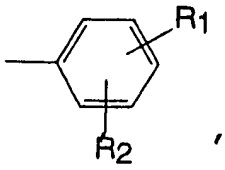
1. to 52. (Canceled)

53. (Original) A color filter comprising a colored layer as colored pixels provided on a transparent substrate, said colored layer containing a pyrrolo[3,4-c]pyrrole derivative produced by converting at least one ketopyrrole group in a pyrrolo[3,4-c]pyrrole of formula



(I)

wherein A and B are each independently of the other a group of formula



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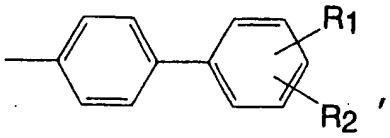

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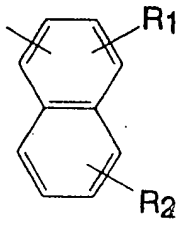

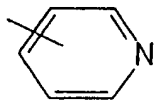

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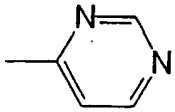

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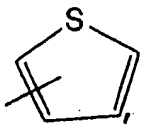

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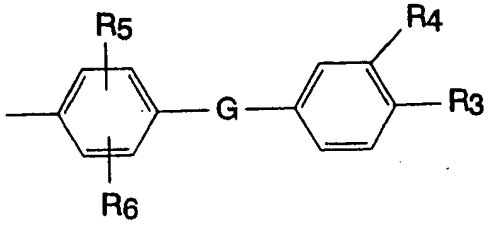
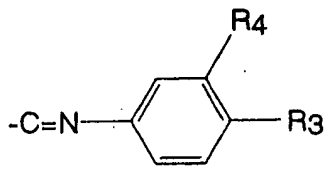


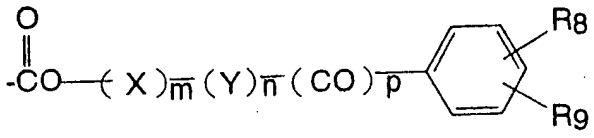
wherein R_1 and R_2 are each independently of the other hydrogen, halogen, C_1-C_{18} alkyl, C_1-C_{18} alkoxy, C_1-C_{18} alkylmercapto, C_1-C_{18} alkylamino, -CN, $-NO_2$, phenyl, trifluoromethyl, C_5-C_6 cycloalkyl, -C=N-(C_1-C_{18} alkyl), a group of formula



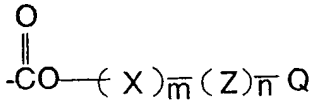
,

imidazolyl, pyrrazolyl, triazolyl, piperazinyl, pyrrolyl, oxazolyl, benzoxazolyl, benzothiazolyl, benzimidazolyl, morpholinyl, piperidinyl, or pyrrolidinyl; G is $-CH_2-$, $-CH(CH_3)-$, $-CH(CH_3)_2-$, -CH=N-, -N=N-, -O-, -S-, -SO-, $-SO_2-$, or $-NR_7-$; R_3 and R_4 are each independently of the other hydrogen, halogen, C_1-C_{18} alkoxy, or -CN; R_5 and R_6 are each independently of the other hydrogen, halogen, or C_1-C_6 alkyl; and R_7 is hydrogen or C_1-C_6 alkyl; and

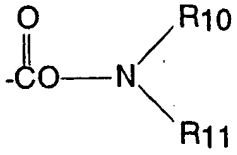
D and E are each independently of the other a group of formula



(II),



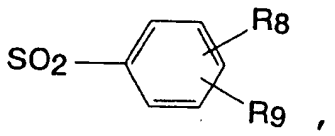
(III), or



(IV)

wherein, in the formulae (II), (III), and (IV), m, n, and p are each independently of one another a number of 0 or 1; X is C_1-C_{14} alkylene or C_2-C_6 alkenylene; Y is a group -V-$(CH_2)_q$-; Z is a group -V-$(CH_2)_r$-; V is C_3-C_6 cycloalkylene; q is an integer from 1 to 6; r is an integer from 0 to 6; R_8 and R_9 are each

independently of the other hydrogen, C_1-C_6 alkyl, C_1-C_4 alkoxy, halogen, CN, NO_2, unsubstituted phenyl or phenoxy, or phenyl or phenoxy which is substituted by C_1-C_4 alkyl, C_1-C_4 alkoxy, or halogen; and Q is hydrogen, CN, $Si(R_8)_3$, a group $C(R_{12})(R_{13})(R_{14})$ wherein R_{12}, R_{13}, and R_{14} are halogen, a group of formula

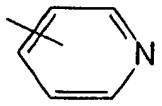


,

wherein R_8 and R_9 are as defined above,

a group SO_2R_{15} or SR_{15} wherein R_{15} represents phenyl which is substituted by a C_1-C_4 alkyl, a C_1-C_4 alkoxy, or a halogen,

or a group of formula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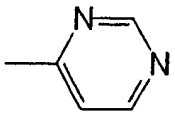
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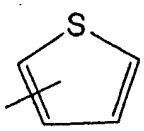
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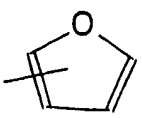
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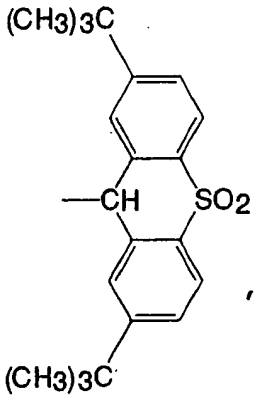
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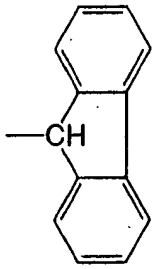
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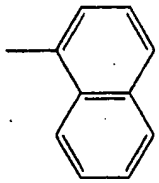
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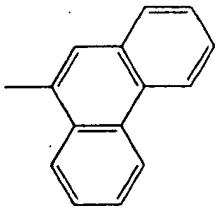
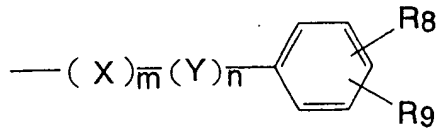


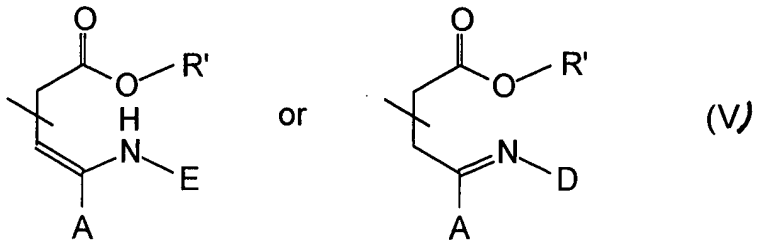
; and

R_{10} and R_{11} are each independently of the other hydrogen, C_1-C_{18} alkyl, or a group of formula



wherein X, Y, R_8, R_9, m, and n are as defined above, or R_{10} and R_{11}, together with the linking nitrogen atom, form pyrrolidinyl, piperidinyl, or morpholinyl radical; and D may be hydrogen, with the proviso that, if D and/or E are a group of formula (III), Q is hydrogen, and n is 0, m must be 1 and X must be a C_2-C_{14} alkylene or C_2-C_8 alkenylene group which is branched at the carbon atom attached to the oxygen atom,

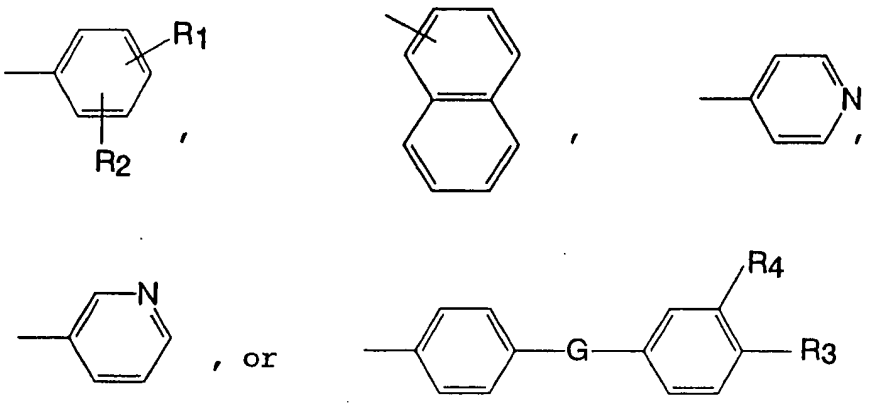
said at least one ketopyrrole group being converted to



(V)

wherein A may be B with the proviso that, if A is B, D is E; and R' is C_1-C_5 alkyl.

54. (Original) The color filter according to claim 53, wherein A and B in formula (V) are each independently of the other a group of formula

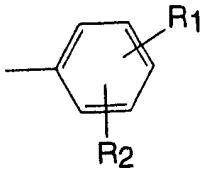


, or

wherein R_1 and R_2 are each independently of the other hydrogen, chloro, bromo, C_1-C_4 alkyl, C_1-C_6 alkoxy, C_1-C_6 alkylamino, CN, or phenyl; G is -O-, -NR_7-, -N=N-, or -SO_2-; R_7 is hydrogen, methyl, or ethyl; and R_3 and R_4 are hydrogen.

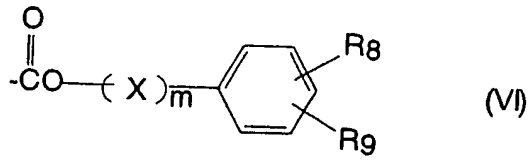
55. (Original) The color filter according to claim 53, wherein A and B in formula (V) are identical to each other.

56. (Original) The color filter according to claim 55, wherein A and B in formula (V) are a group of formula

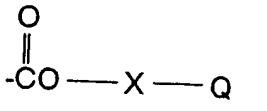


wherein R_1 and R_2 are each independently of the other hydrogen, methyl, tert-butyl, chloro, bromo, CN, or phenyl.

57. (Currently Amended) The color filter according to claim 53, wherein D is ~~hydrogen or~~ E, and E is a group of formula

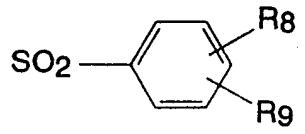


(VI)



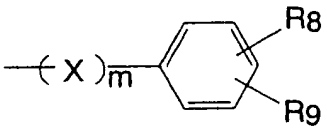
(VII)

or formula (IV) wherein, in formulae (VI), (VII), and (IV), m is 0 or 1; X is C_1-C_4 alkylene or C_1-C_5 alkenylene; R_8 and R_9 are each independently of the other hydrogen, C_1-C_4 alkyl, methoxy, chloro, or $-NO_2-$; Q is hydrogen, CN, CCl_3, a group of formula

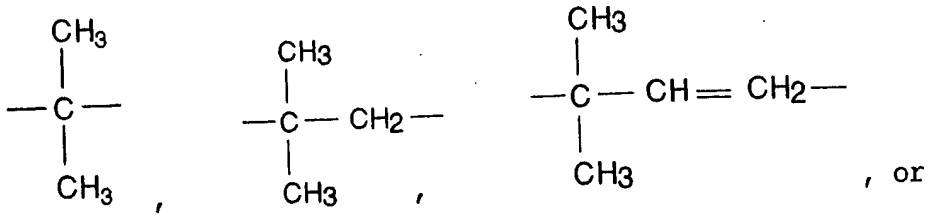


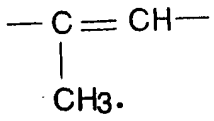
wherein R_8 and R_9 are as defined above,

SO_2, SH_3, or SCH_3; R_{10} and R_{11} are each independently of the other hydrogen, C_1-C_4 alkyl, or a group of formula

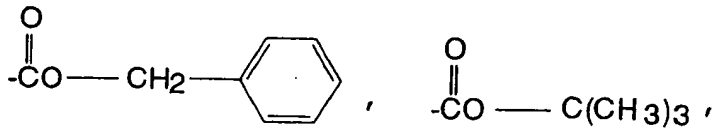


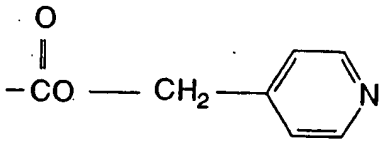
or R_{10} and R_{11}, taken together, form a piperidinyl radical, with the proviso that, if D and/or E are a group of formula ~~(IX)~~ (VII) and Q is hydrogen, X is a group of formula

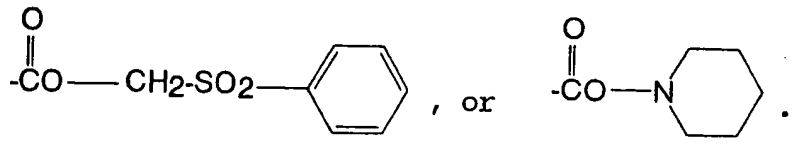




58. (Original) The color filter according to claim 53, wherein D and E in formula (V) are identical to each other and are a group of formula





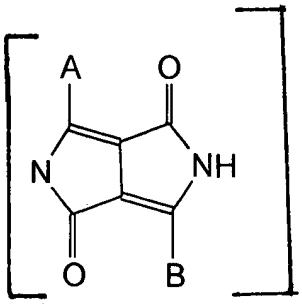


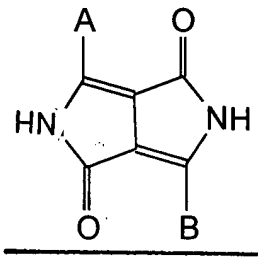
59. (Original) The color filter according to claim 53, wherein the pyrrolo[3,4-c]pyrrole derivative of formula (V) is produced by reacting the pyrrolo[3,4-c]pyrrole of formula (I) in a solvent including a lower alcohol and in the presence of a base as a catalyst.

60. (Currently Amended) The color filter according to claim 59, wherein the reaction is carried out at a temperature of 0 to 400°C~~, preferably a temperature of 20 to 200°C,~~ for 2 to 80 hr.

61. (Canceled)

62. (Currently Amended) The color filter according to claim 53, wherein the colored layer <u>further</u> contains a coloring material containing as its component a pyrrolo[3,4-c]pyrrole of formula

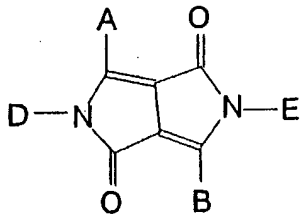




(VIII)

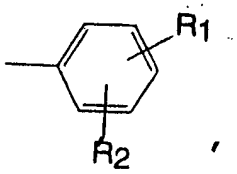
wherein A and B are as defined in formula (I),

which has been produced in situ by thermal decomposition, photolysis, or chemical decomposition of the pyrrolo[3,4-c]pyrrole derivative ~~according to claim 53~~ produced by converting at least one ketopyrrole group in a pyrrolo [3,4-c] pyrrole of the formula



(I)

wherein A and B are each independently of the other a group of formula



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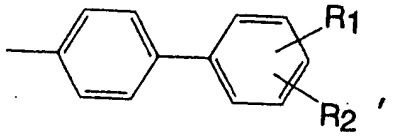

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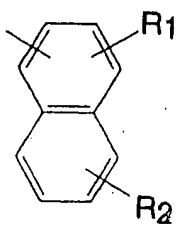

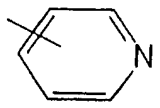

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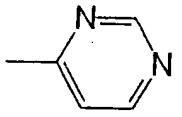

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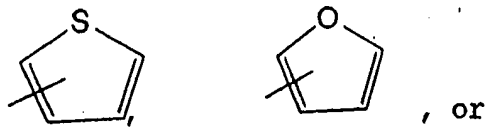

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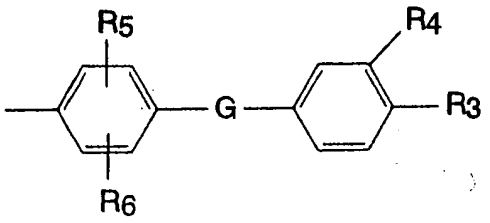
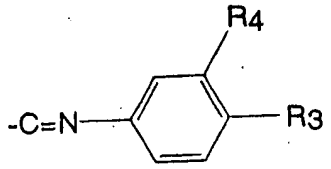


wherein R_1 and R_2 are each independently of the other hydrogen, halogen, C_1-C_{18} alkyl, C_1-C_{18} alkoxy, C_1-C_{18} alkylmercapto, C_1-C_{18} alkylamino, -CN, $-NO_2$, phenyl, trifluoromethyl, C_5-C_6 cycloalkyl, -C=N-(C_1-C_{18} alkyl), a group of formula



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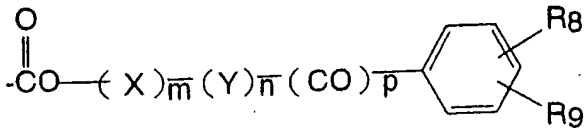
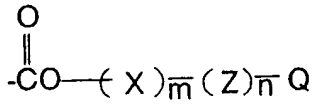
imidazolyl, pyrrazolyl, triazolyl, piperazinyl, pyrrolyl, oxazolyl, benzoxazolyl, benzothiazolyl, benzimidazolyl, morpholinyl, piperidinyl, or pyrrolidinyl; G is $-CH_2-$, $-CH(CH_3)-$, $-CH(CH_3)_2-$, -CH=N-, -N=N-, -O-, -S-, -SO-, $-SO_2-$, or -NR-; R_3 and R_4 are each independently of the other hydrogen, halogen, C_1-C_{18} alkoxy, or -CN; R_5 and R_6 are each independently of the other hydrogen, halogen, or C_1-C_6 alkyl; and R_7 is hydrogen or C_1-C_6 alkyl; and

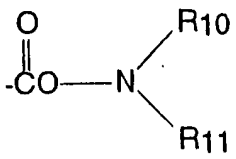
D and E are each independently of the other a group of formula



(II),

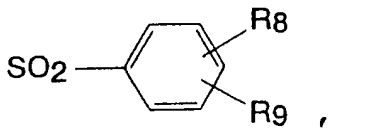


(III), or



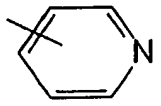
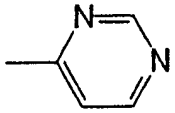
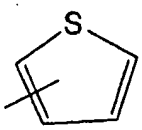
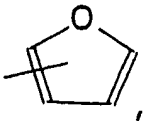
(IV)

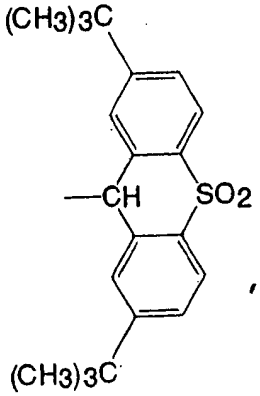
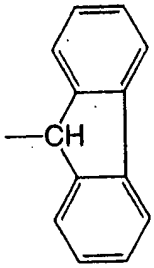
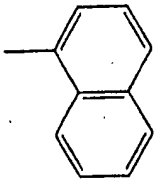
wherein, in the formulae (II), (III), and (IV), m, n, and p are each independently of one another a number of 0 or 1; X is C_1-C_{14} alkylene or C_2-C_6 alkenylene; Y is a group $-V-(CH_2)_q-$; Z is a group $-V-(CH_2)_r-$; V is C_3-C_6 cycloalkylene; q is an integer from 1 to 6; r is an integer from 0 to 6; R_8 and R_9 are each independently of the other hydrogen, C_1-C_6 alkyl, C_1-C_4 alkoxy, halogen, CN, NO_2, unsubstituted phenyl or phenoxy, or phenyl or phenoxy which is substituted by C_1-C_4 alkyl, C_1-C_4 alkoxy, or halogen; and Q is hydrogen, CN, $Si(R_8)_3$, a group $C(R_{12})(R_{13})(R_{14})$ wherein R_{12}, R_{13}, and R_{14} are halogen, a group of formula

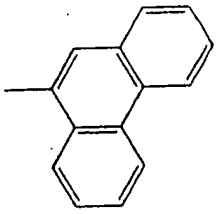


wherein R_8 and R_9 are as defined above,

a group SO_2R_{15} or SR_{15} wherein R_{15} represents phenyl which is substituted by a C_1-C_4 alkyl, a C_1-C_4 alkoxy, or a halogen, or a group of formula

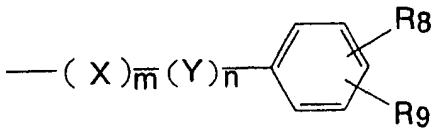







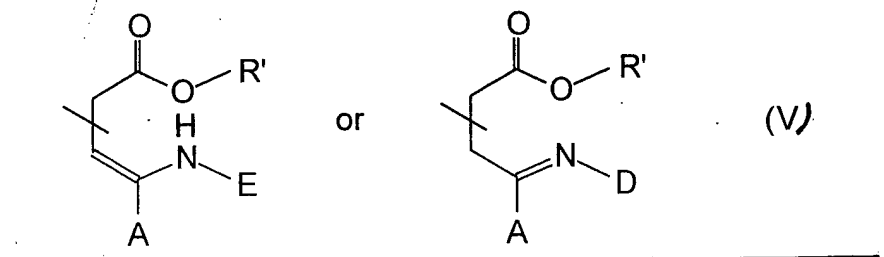
; and

R_{10} and R_{11} are each independently of the other hydrogen C_1-C_{18} alkyl, or a group of formula



wherein X, Y, R_8, R_9, m, and n are as defined above, or R_{10} and R_{11}, together with the linking nitrogen atom, form pyrrolidinyl, piperidinyl, or morpholinyl radical; and D may be hydrogen with the proviso that, if D and/or E are a group of formula (III), Q is hydrogen, and n is 0, m must be 1 and X must be a C_2-C_{14} alkylene or C_2-C_8 alkenylene group which is branched at the carbon atom attached to the oxygen atom,

said at least one ketopyrrole group being converted to



(V)

wherein A may be B with the proviso that, if A is B, D is E; and R′ is C_1-C_5 alkyl.

63. (New) The color filter according to claim 59, wherein the reaction is carried out at a temperature of 20 to 200°C.